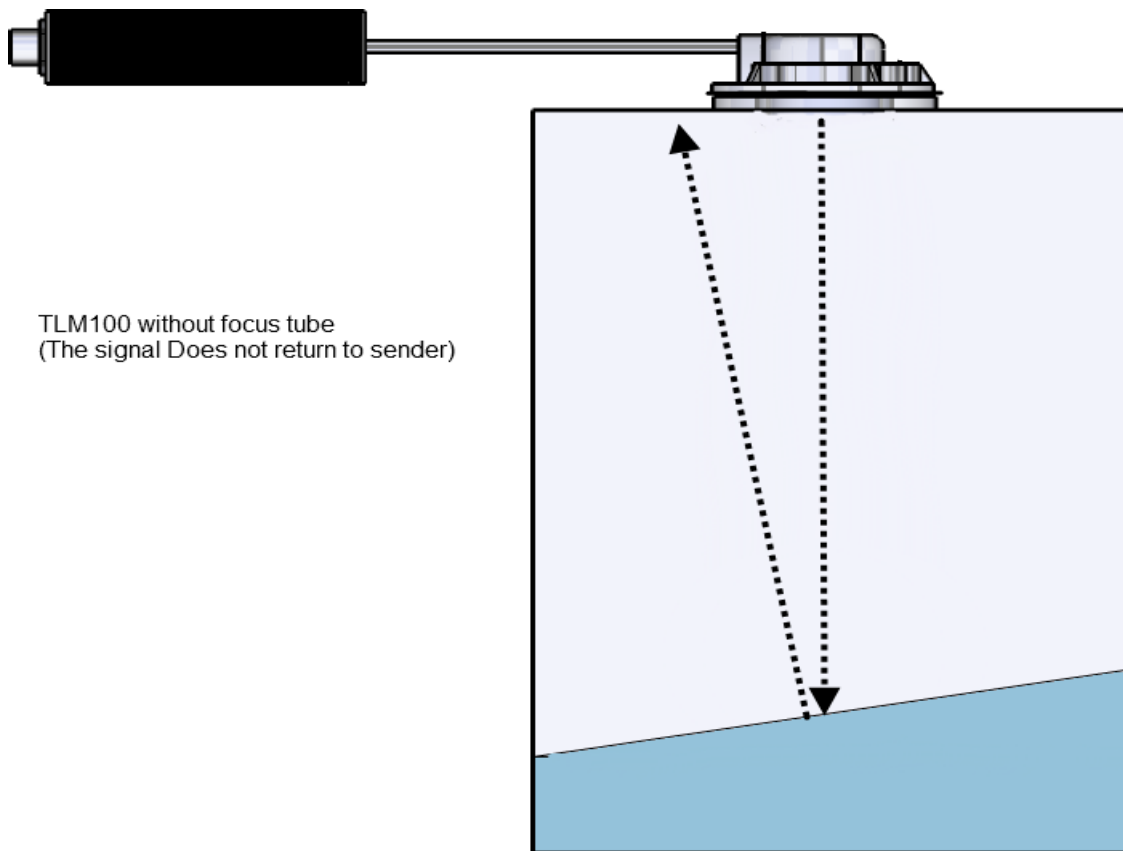


What happens when I use the TLM100/150 without a focus tube?

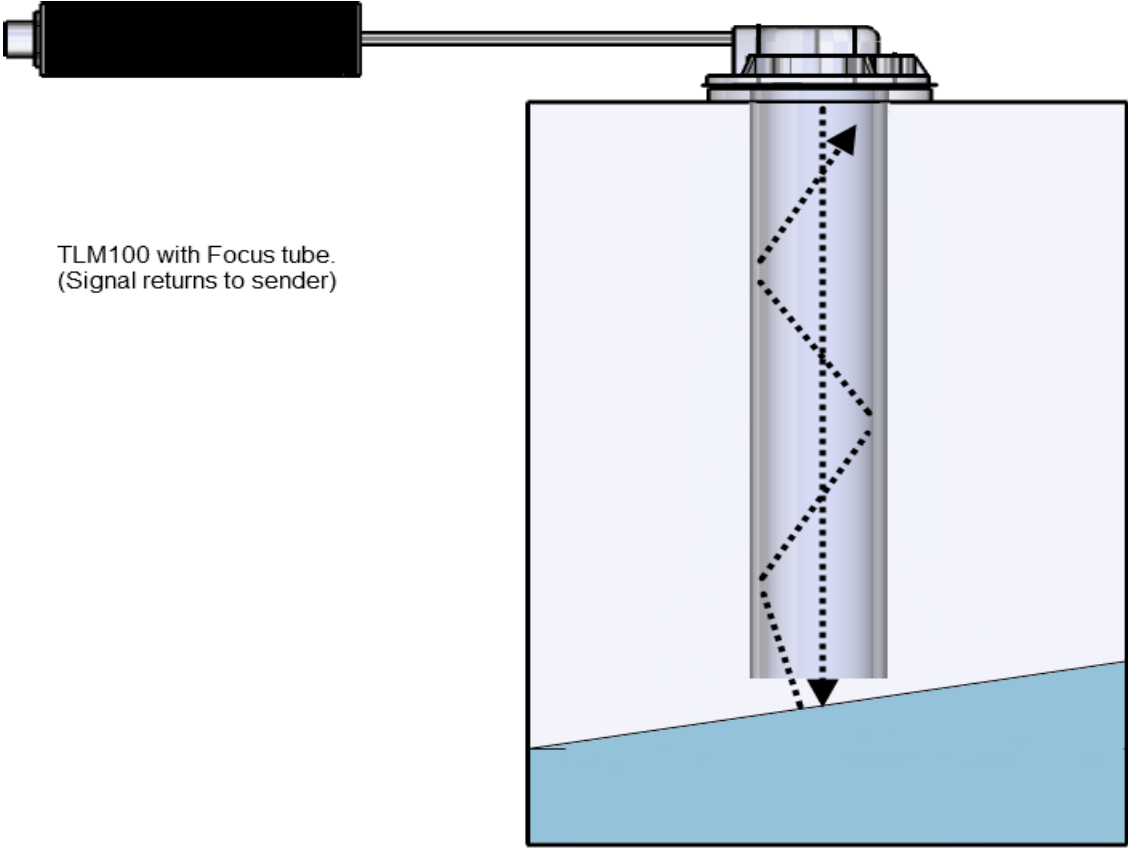
Article Number: 470 | Rating: 5/5 from 1 votes | Last Updated: Mon, Jul 27, 2015 6:34 PM

A focus tube is recommended for tank applications that experience a drastic level change when the vessel is underway.

The TLM100 transmits an ultrasonic pulse that allows the device to calculate the distance from the sensor to the fluid surface (similar to depth sounders). When the vessel begins to plane, the tank level changes. The liquid shifts to one side of the tank leaving a sloped surface which will cause the sound pulses from the TLM100 will bounce around the tank and not back to the TLM100 sensor, as shown in the following illustration:



A focus tube helps control this change within the tank. The focus tube helps guarantee that a signal will return back to the sensor, eliminating this issue of signal loss, as shown below:



TLM100 with Focus tube.
(Signal returns to sender)

The Anatomy of Maretron's focus tube



Benefits to using the TFT accessory:

1. Fluid Airlock Opening
 - a. Prevents fluid contact with sensor.
2. End Cap with opening
 - a. allows fluid to enter focus tube below the float line helping to prevent debris entry into focus tube.
3. ECO 60 Rubber gasket
 - a. helps prevent spills and air leaks.
 - b. compatible with many fluid types
 - c. Prevents the need for silicone use.

Posted - Thu, Apr 29, 2010 7:06 PM. This article has been viewed 3881 times.

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